

INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 2004/000811

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: G05D 1/02, B25J 9/16

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: G05D, B25J, A01B, A01D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002156556 A1 (B.J.RUFFNER), 24 October 2002 (24.10.2002), [0078][0089][0090][0119][0132] FIG.1, 2,10,ABSTRACT	1-3,5,7-9, 11,14
Y	--	6,16
Y	WO 03014852 A1 (SIEMENS AKTIENGESELLSCHAFT), 2 February 2003 (02.02.2003), page 7, line 30 - line 34	6,16
A	WO 0106905 A1 (THE PROCTER & GAMBLE COMPANY), 1 February 2001 (01.02.2001), whole document	1-24

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

4 August 2004

Date of mailing of the international search report

05-08-2004

Name and mailing address of the ISA/
Swedish Patent Office
Box 5055, S-102 42 STOCKHOLM
Facsimile No. +46 8 666 02 86

Authorized officer

Ender Dag /itw

Telephone No. +46 8 782 25 00

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PCT/SE 2004/000811

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5896488 A (J-Y.JEONG), 20 April 1999 (20.04.1999), whole document --	1-24
A	EP 0562559 A1 (SANYO ELECTRIC CO.,LTD.), 29 Sept 1993 (29.09.1993), whole document --	1-24
A	PATENT ABSTRACTS OF JAPAN vol.017,no.242 14 June 1993 (1993-06-14) & JP4365104 A (TOSHIBA CORP), 17 December 1992(1992-12-17) abstract -- -----	1-24

INTERNATIONAL SEARCH REPORT

Information on patent family members

03/07/2004

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US	2002156556	A1	24/10/2002	GB	0129691	D	00/00/0000
				GB	2382157	A	21/05/2003
				US	6611738	B	26/08/2003
				US	2003088674	A	08/05/2003
				US	6338013	B	08/01/2002
				US	6502017	B	31/12/2002
				US	6600981	B	29/07/2003
				US	6650975	B	18/11/2003
				US	2002049517	A	25/04/2002
				US	2002049521	A	25/04/2002
				US	2002049522	A	25/04/2002

WO	03014852	A1	02/02/2003	EP	1412828	A	28/04/2004

WO	0106905	A1	01/02/2001	AU	6607700	A	13/02/2001
				GB	9917348	D	00/00/0000

US	5896488	A	20/04/1999	CN	1055772	B	23/08/2000
				CN	1161268	A	08/10/1997
				JP	3217281	B	09/10/2001
				JP	9174471	A	08/07/1997
				KR	126623	Y	15/10/1998
				KR	168189	B	01/02/1999

EP	0562559	A1	29/09/1993	DE	69302943	D	00/00/0000
				JP	6029793	U	19/04/1994
				JP	6080203	A	22/03/1994
				US	5402051	A	28/03/1995
